Claims

- 1. A method for separating different kinds of solid plastic particles in a solid plastic mixture, said method comprising the steps of preparing a solid plastic mixture comprising plural kinds of diamagnetic solid plastic particles, floating, suspending or precipitating said solid plastic particles in a supporting liquid, applying a magnetic field gradient to the solid plastic mixture, and leviating or anti-leviating said the plastic particles at different locations in the supporting liquid under a magnetic field gradient, depending upon their densities and diamagnetic susceptibilities.
- 2. A method claimed in claim 1, wherein a paramagnetic liquid is used as the suspending liquid.
- 3. A method claimed in claim 1 or 2, wherein an aqueous solution of paramagnetic inorganic salt is used as the suspending liquid.
- 4. A method claimed in claim 1 or 2, wherein the separation is continuously carried out by circulating the suspending liquid.
- 5. A method claimed in claim 3, wherein the separation is continuously carried out by circulating the suspending liquid.